Schottky Diodes: MCM 500 Series

Medium Barrier Schottky Ring Quads

Description

The **MicroMetrics** MCM 500 series of Medium Barrier Ring Quads consists of four closely matched diodes connected in a ring configuration. The diodes are formed monolithically providing close matching of capacitance, forward voltage and series resistance.

Applications

The Medium Barrier Schottky Ring Quads are ideally suited for use in doublers, modulators and as double balance mixers.

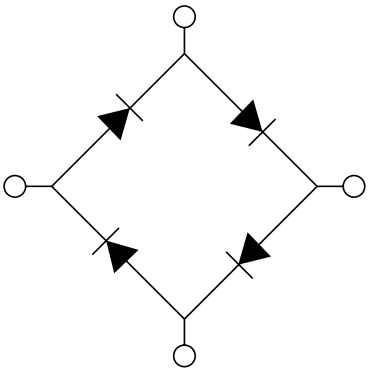
Features

- Low Junction Capacitance
- Monolithic Construction
- Low Series Resistance

Packaging

- CS 12-4, CS 17, CS 26, CS 26R

Diode Ring Circuit



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Electrical Characteristics

Breakdown Voltage @10 µA MIN (V)	Forward Voltage @1 mA MAX (mVdc)	Delta Forward Voltage @1 mA MAX (mV)	Total Capacitance @0 Vdc 1 MHz TYP (pF)	R_D TYP @5 mA (Ohms)	Part Number
3.0	370	25	0.12	12	MCM500
3.0	390	25	0.15	12	MCM501
3.0	410	25	0.15	14	MCM502
3.0	430	25	0.15	14	MCM503
3.0	450	25	0.18	18	MCM504
3.0	470	25	0.20	20	MCM505

Maximum Ratings

Operating Temperature	-55°C to + 150°C
Storage Temperature	-65°C to + 200°C
Power Dissipation @25°C	250mW
(derate linearly to zero at 150°C)	

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